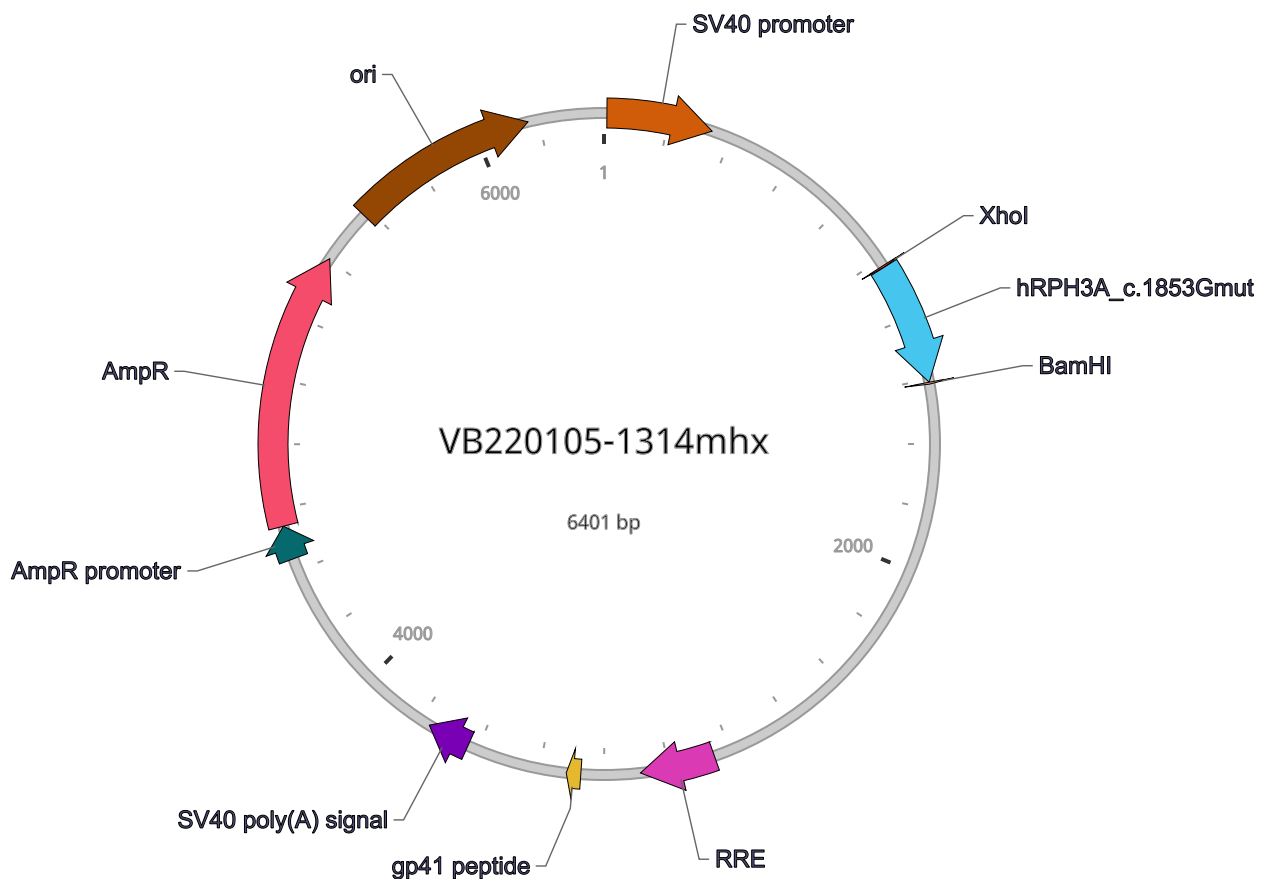


Vector Summary

Vector ID	VB220105-1314mhx
Vector Name	pSPL3-hRPH3A_c.1853Gmut
Vector Size	6401 bp
Vector Type	Mammalian Gene Expression Vector
Plasmid Copy Number	High
Antibiotic Resistance	Ampicillin
Cloning Host	VB UltraStable (or alternative strain)

Vector Map



Vector Components

Name	Position	Size (bp)	Type	Description	Application notes
SV40 promoter	■ 10-339	330	promoter	None	note=Unknown feature type:Promoter color: #d84e4e; direction: RIGHT

Name	Position	Size (bp)	Type	Description	Application notes
XhoI	1022-1027	6	misc_feature	None	None
hRPH3A_c.1853Gmut	1028-1409	382	misc_feature	None	note=hRPH3A_c.1853Gmut
BamHI	1410-1415	6	misc_feature	None	None
RRE	2855-3088	234	misc_feature	None	full_name=HIV-1 Rev response element
gp41 peptide	3273-3317	45	ORF	None	codon_start=1 product=antigenic peptide corresponding to amino acids 655 to 669 of the HIV envelope protein gp41 (Lutje Hulsik et al., 2013)
SV40 poly(A) signal	3633-3767	135	polyA_signal	None	None
AmpR promoter	4441-4545	105	promoter	None	gene=bla note=Unknown feature type:Promoter color: #fd3434; direction: RIGHT
AmpR	4546-5406	861	ORF	None	codon_start=1 full_name=Ampicillin resistance gene gene=bla product=beta-lactamase
ori	5577-6165	589	rep_origin	None	None

Note: Components added by user are listed in **bold red** text.

Vector Sequence

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1  CTGTGGAATG TGTGTCAGTT AGGGTGTGGA AAGTCCCCAG GCTCCCCAGC AGGCAGAAGT ATGCAAAGCA TGCATCTCAA
81  TTAGTCAGCA ACCAGGTGTG GAAAGTCCCC AGGTCCCCA GCAGGCAGAA GTATGCAAAG CATGCATCTC AATTAGTCAG
161 CAACCATAGT CCCGCCCTA ACTCCGCCA TCCCGCCCCT AACTCCGCC AGTTCGCCCC ATTCTCCGCC CCATGGCTGA
241 CTAATTTTTT TTATTTATGC AGAGGCCGAG GCCGCCTCGG CCTCTGAGCT ATTCCAGAAG TAGTGAGGAG GCTTTTTTGG
321 AGGCCTAGGC TTTTGCAAAA AGCTTGGACT GTGTTACTT GCAATCCCC AAAACAGACA GAATGGTGCA TCTGTCCAGT
401 GAGGAGAAGT CTGCGGTCAC TGCCCTGTGG GGCAAGGTGA ATGTGGAAGA AGTTGGTGGT GAGGCCCTGG GCAGGCTGCT
481 GGTTGTCTAC CCATGGACCC AGAGGTTCTT CGAGTCCTTT GGGGACCTGT CCTCTGCAA TGCTGTTATG AACAATCCTA
561 AGGTGAAGGC TCATGGCAAG AAGGTGCTGG CTGCCTTCAG TGAGGGTCTG AGTCACCTGG ACAACCTCAA AGGCACCTTT
641 GCTAAGCTGA GTGAACTGCA CTGTGACAAG CTGCACGTGC TCTAGAGTCG ACCCAGCAGT AAGTAATACA TGTAATGCAA
721 CCTATACAAA TAGCAATAGT AGCATTAGTA GTAGCAATAA TAATAGCAAT AGTTGTGTGG TCCATAGTAA TCATAGAATA
801 TAGGAAAATA TTAAGACAAA GAAAAATAGA CAGGTTAATT GATAGACTAA TAGAAAGAGC AGAAGACAGT GGCAATGAGA
881 GTGAAGGAGA AATATCAGCA CTTGTGGAGA TGGGGGTGGA GATGGGGCAC CATGCTCCTT GGGATGTTGA TGATCTGTAG
961 TGCTACAGAA AAATTGTGGG TCACAGTCTA TTATGGGGTA GGGATCACCA GAATTCTGGA GCTCGAGGAT GCTCTAATGC
1041 ATATTGGTCA TTATCAATGT TGATCCCTTT CTGATTTATT CATCAATTCA CCCTGATAAA GAAGGGGCCCT TTGGGGTCAA
1121 GAGGCTGTTC TTATTCATTA AACGTCATCC ATAATAGCAT GTGTGTGTCG CTCCAGCTG GCTGAAACCG GACATGGGAA
1201 AGAAGGCCAA ACACAAGACT CAAATTAATA AGAAAACCTT GAATCCCGAA TTCAGTGAGG TAAGGCTGCC CTATTCTTTT

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1281 TCATGCTCTG GGATATTTGC TGTGTGTTAG AGAGGCACAA ATAGCCACAT AGCCATTAAA TATGTGGCCA CATAGCCATT
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 1441 TGTGGAAGGA AGCAACCACC ACTCTATTTT GTGCATCAGA TGCTAAAGCA TATGATACAG AGGTACATAA TGTTTTGGCC
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 2241 AGGGGACCAG GGAGAGCATT TGTTACAATA GGAAAAATAG GAAATATGAG ACAAGCACAT TGTAACATTA GTAGAGCAAA
 2321 ATGGAATGCC ACTTTAAAC AGATAGCTAG CAATTAAGA GAACAATTTG GAAATAATAA AACAATAATC TTTAAGCAAT
 2401 CCTCAGGAGG GGACCCAGAA ATTGTAACGC ACAGTTTTAA TTGTGGAGGG GAATTTTTCT ACTGTAATTC AACACAACCTG
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6321 CGAGTCAGTG AGCGAGGAAG CGGAAGAGCG CCCAATACGC AAACCGCCTC TCCCCGCGG TTGGCCGATT CATTAATGCA
6401 G

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Validation by Restriction Enzyme Digestion

Restriction Enzymes	Cutting Sites	DNA Fragments (bp)
XhoI	1023	6401
NdeI	1491	6401
ApaLI	1701, 4662, 5908	2961, 1246, 2194
EcoRV	1421	6401
BamHI	1411	6401
ApaLI+XhoI	1023, 1701, 4662, 5908	678, 2961, 1246, 1516
ApaLI+NdeI	1491, 1701, 4662, 5908	210, 2961, 1246, 1984
ApaLI+BamHI	1411, 1701, 4662, 5908	290, 2961, 1246, 1904
ApaLI+EcoRV	1421, 1701, 4662, 5908	280, 2961, 1246, 1914